

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P963678

Luminaire Tested: **NVN-SB3A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3A-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9385.9 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



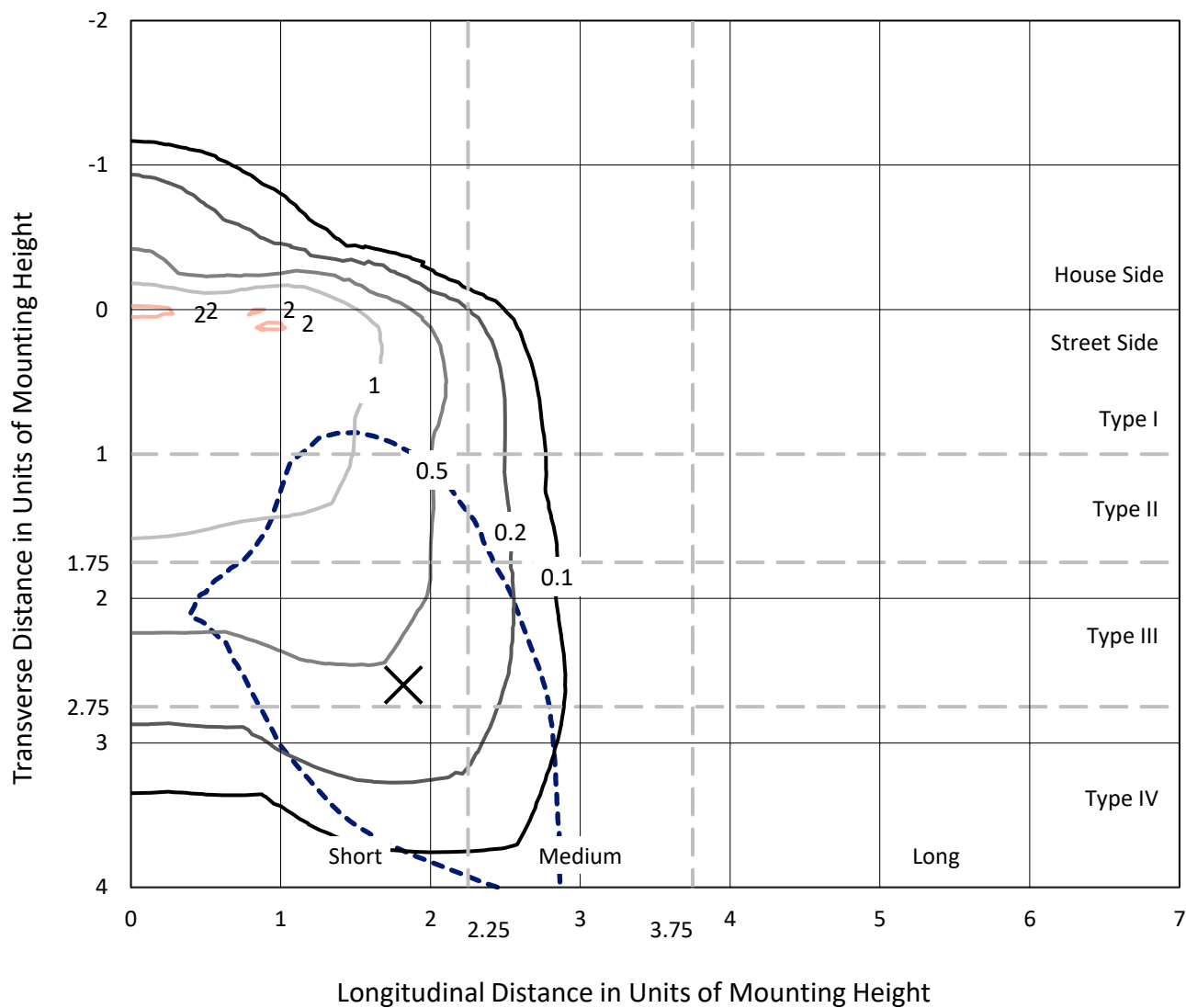
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

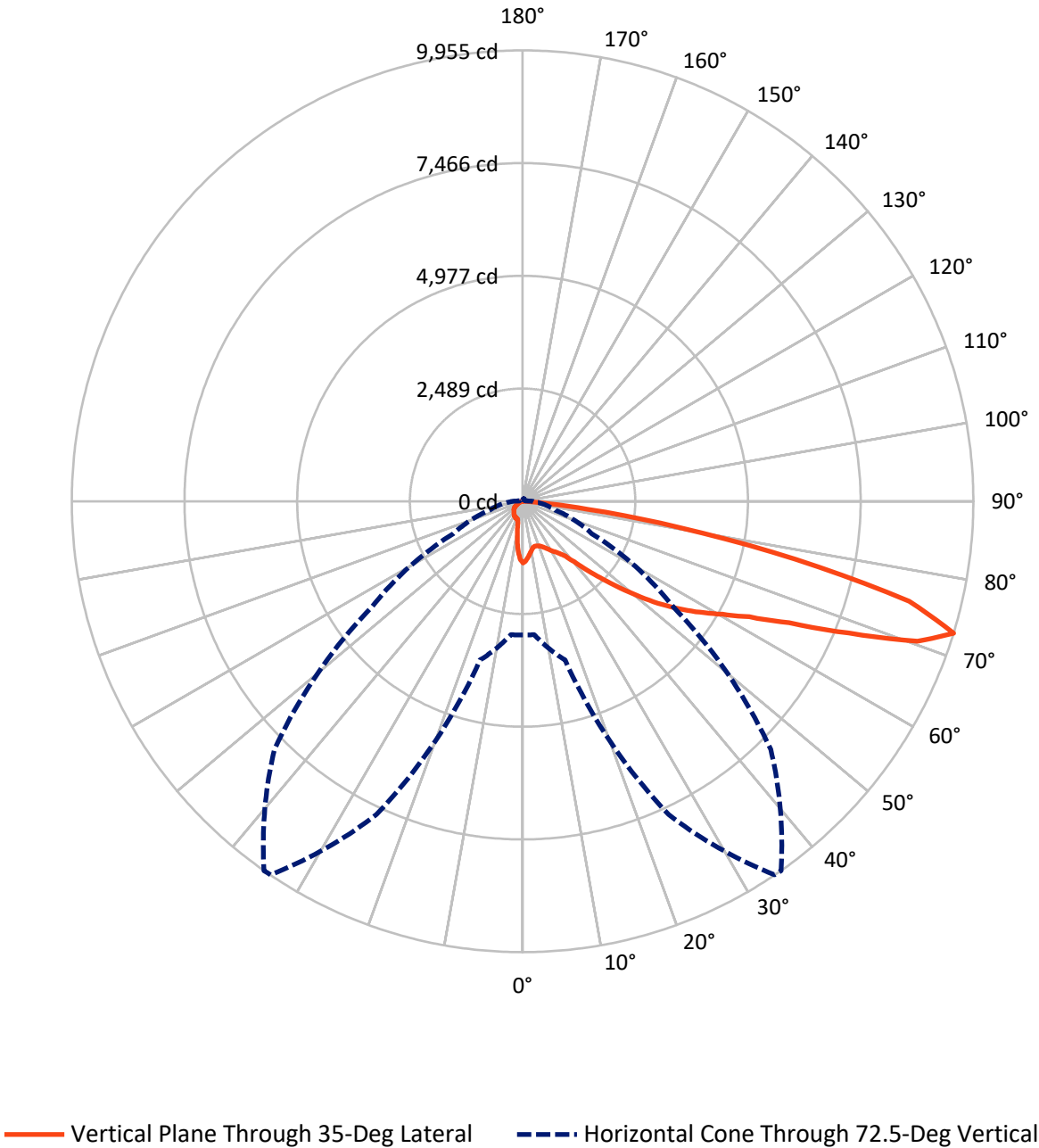
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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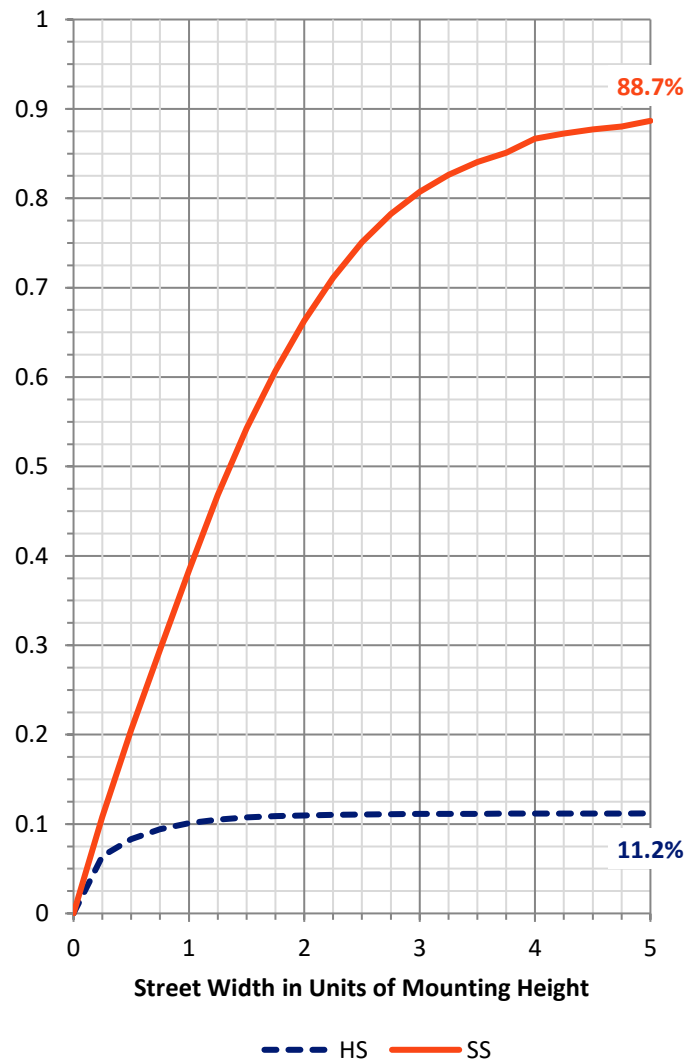
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1056.4	0.0	1056.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	8329.6	0.0	8329.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	9385.9	0.0	9385.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	1.2
10°-20°	261.5	2.8
20°-30°	424.8	4.5
30°-40°	708.8	7.6
40°-50°	1341.0	14.3
50°-60°	2130.9	22.7
60°-70°	2636.1	28.1
70°-80°	1638.6	17.5
80°-90°	132.4	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9385.9	100.0
0°-180°	9385.9	100.0

Coefficient of Utilization



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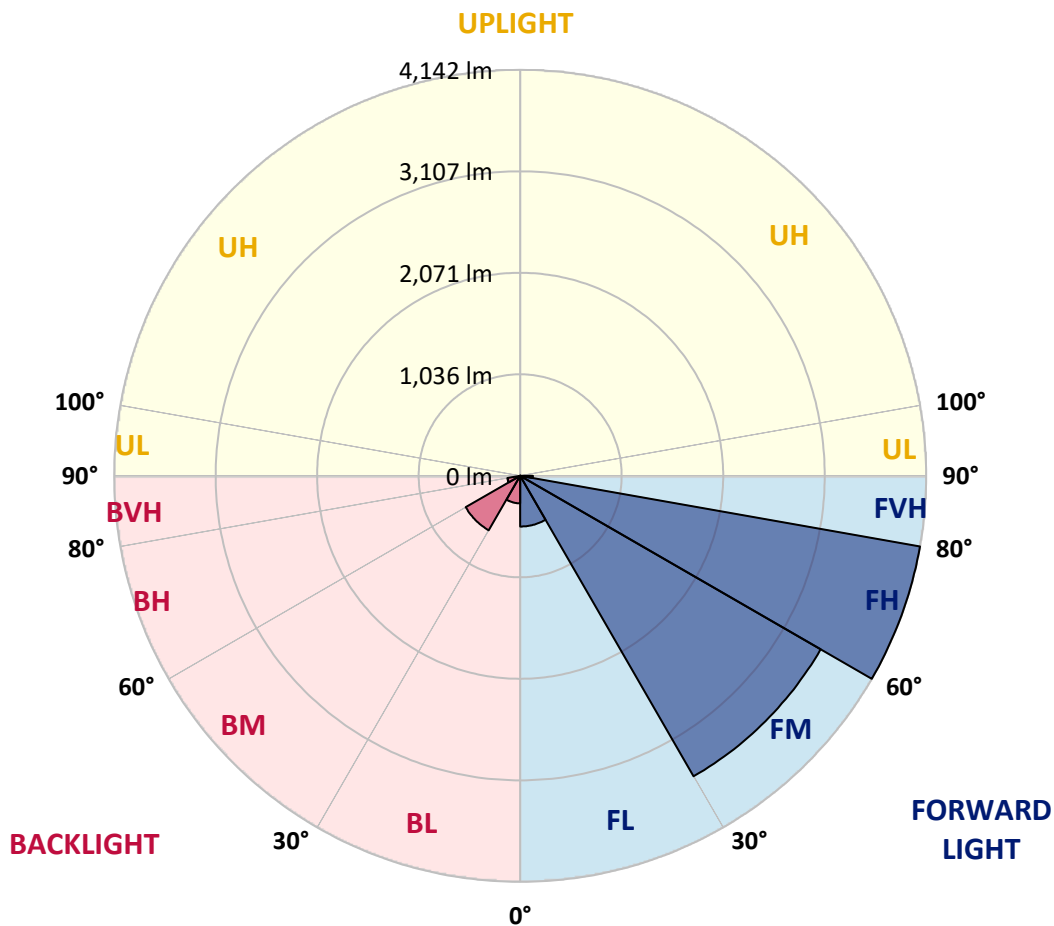
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	517.4	5.5			
FM	(30°-60°)	3539.4	37.7			
FH	(60°-80°)	4142.1	44.1			G2/5000
FVH	(80°-90°)	130.6	1.4			G2/225
BL	(0°-30°)	280.7	3.0	B1/500		
BM	(30°-60°)	641.3	6.8	B1/1000		
BH	(60°-80°)	132.6	1.4	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4
2.5°	1299.8	1310.8	1312.9	1316.3	1316.3	1320.4	1327.4	1336.9	1352.8	1361.0	1366.5
5°	1198.0	1206.3	1216.6	1224.9	1240.7	1242.7	1269.6	1295.7	1332.1	1359.7	1378.9
7.5°	1095.5	1105.2	1118.9	1138.9	1159.5	1165.7	1206.3	1250.3	1308.1	1359.7	1391.9
10°	1023.4	1024.1	1036.4	1056.4	1089.4	1097.0	1146.5	1209.0	1281.2	1351.4	1404.4
12.5°	982.8	987.6	993.1	1008.2	1039.9	1044.7	1097.7	1171.2	1254.4	1346.5	1418.8
15°	982.8	986.3	989.6	997.2	1022.6	1026.7	1073.6	1147.2	1240.7	1348.7	1442.2
17.5°	993.1	998.6	995.8	1004.8	1031.6	1034.3	1075.6	1140.2	1239.9	1361.7	1477.9
20°	1017.8	1021.9	1016.5	1021.9	1048.8	1054.3	1097.0	1153.3	1251.6	1384.4	1522.6
22.5°	1057.1	1059.1	1046.0	1050.2	1077.7	1084.6	1134.1	1190.4	1279.9	1420.9	1582.5
25°	1106.6	1110.7	1090.7	1095.5	1121.7	1130.0	1187.1	1246.2	1324.6	1471.1	1658.9
27.5°	1163.7	1165.7	1148.5	1147.8	1181.5	1193.2	1251.0	1315.0	1384.4	1534.3	1755.1
30°	1229.0	1235.1	1218.6	1216.0	1258.6	1268.1	1325.2	1399.5	1472.4	1629.2	1891.9
32.5°	1280.5	1285.4	1275.7	1282.6	1325.9	1333.5	1415.3	1519.2	1610.7	1764.0	2078.3
35°	1354.8	1357.6	1335.6	1348.0	1397.5	1416.8	1538.4	1687.0	1784.6	1933.3	2321.8
37.5°	1623.7	1623.7	1530.2	1469.0	1516.5	1533.6	1706.9	1898.1	1999.3	2160.2	2628.5
40°	1995.8	1989.6	1852.8	1727.5	1721.4	1755.1	1947.0	2164.3	2276.4	2432.5	2973.7
42.5°	2392.7	2383.0	2196.6	2072.9	2052.2	2063.8	2224.1	2492.4	2606.5	2764.7	3345.1
45°	2744.7	2742.0	2571.4	2405.0	2367.9	2405.0	2570.1	2876.0	2957.9	3124.4	3715.8
47.5°	3039.7	3039.7	2915.3	2806.7	2787.4	2809.4	3038.4	3301.8	3294.2	3507.4	4076.8
50°	3379.5	3376.8	3258.5	3211.7	3231.6	3262.6	3577.6	3750.2	3642.2	3883.6	4399.4
52.5°	3617.4	3633.9	3593.4	3585.9	3687.6	3741.2	4125.0	4189.0	3953.7	4240.5	4640.8
55°	3805.9	3825.2	3871.9	3924.9	4120.9	4191.0	4655.2	4605.0	4214.4	4550.1	4779.8
57.5°	4072.7	4045.3	4117.4	4222.0	4539.0	4623.7	5169.0	4997.8	4424.2	4801.1	4794.8
60°	4396.6	4400.8	4413.1	4545.3	4956.5	5065.1	5675.2	5369.2	4559.0	4955.2	4627.1
62.5°	4785.9	4792.1	4817.6	5020.4	5517.0	5619.5	6214.4	5673.1	4620.9	4911.8	4193.8
65°	4759.1	4785.2	5069.2	5763.2	6369.0	6470.2	6843.6	5886.3	4527.3	4515.6	3414.6
67.5°	4335.4	4378.1	4853.4	6650.4	7653.8	7766.5	7604.3	5928.3	4123.7	3511.5	2227.5
70°	3779.8	3795.0	4366.4	7448.2	9141.4	9255.5	8285.1	5466.8	3129.2	1958.7	997.9
72.5°	2951.8	2955.2	3625.7	7633.2	9948.8	9954.9	7750.7	4058.3	1682.8	752.3	346.7
75°	2108.6	2087.9	2428.4	6190.3	8752.8	8822.9	5810.6	1903.6	643.0	355.6	172.6
77.5°	1130.7	1153.3	1374.1	3671.1	6046.6	6166.2	3170.4	548.8	327.4	242.1	114.2
80°	349.3	368.6	563.2	1680.8	3424.9	3497.1	1175.4	244.2	228.4	172.6	74.9
82.5°	110.1	114.2	262.7	706.3	1421.6	1454.6	340.4	138.3	156.1	114.2	44.0
85°	31.7	32.3	117.0	263.4	351.5	358.3	95.6	53.6	89.4	70.8	22.7
87.5°	3.5	11.0	44.0	44.0	31.0	30.2	10.4	11.7	25.4	8.9	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4
2.5°	1363.0	1363.8	1354.8	1339.7	1323.2	1309.4	1292.2	1278.5	1268.8	1266.1	1270.9
5°	1372.7	1367.9	1342.4	1296.4	1241.4	1193.9	1140.9	1099.0	1071.5	1059.7	1063.9
7.5°	1387.1	1373.4	1317.7	1226.9	1121.7	1028.2	933.3	859.7	812.9	789.6	792.9
10°	1399.5	1372.1	1276.4	1126.5	965.6	823.9	696.0	607.3	557.7	534.3	535.0
12.5°	1411.2	1371.3	1222.8	1007.6	789.6	616.2	497.2	453.3	439.4	434.6	433.3
15°	1433.3	1373.4	1155.4	871.4	614.2	465.6	422.3	421.6	424.4	422.9	422.3
17.5°	1463.5	1375.4	1079.0	726.9	473.9	410.6	408.5	414.7	418.8	416.8	416.0
20°	1502.6	1383.7	997.9	583.8	407.1	396.8	401.6	407.1	410.6	407.1	406.4
22.5°	1557.7	1398.2	909.2	469.0	385.8	388.6	392.7	398.9	402.3	397.5	396.8
25°	1625.1	1420.9	821.8	407.8	375.5	378.9	385.1	392.0	396.2	391.3	390.6
27.5°	1712.5	1457.3	741.4	394.1	365.2	367.3	376.2	386.5	392.0	385.8	385.8
30°	1839.0	1517.1	671.9	400.3	359.0	354.1	366.5	381.0	387.1	381.7	381.0
32.5°	2006.8	1601.8	629.2	409.9	356.3	339.1	350.8	369.3	379.7	376.2	376.2
35°	2226.9	1730.3	612.7	420.9	354.1	323.3	331.5	351.5	369.3	372.8	372.8
37.5°	2493.7	1909.2	617.6	425.7	348.0	310.2	314.3	331.5	354.9	365.9	368.6
40°	2797.0	2117.5	645.1	420.9	341.1	299.2	299.8	312.9	333.5	350.0	355.6
42.5°	3110.0	2361.0	696.0	403.0	335.0	289.6	287.5	296.4	310.2	321.8	326.7
45°	3407.7	2611.3	746.2	378.2	327.4	279.9	275.1	278.5	281.3	286.1	288.8
47.5°	3667.7	2787.4	731.7	355.6	317.0	268.9	260.7	259.3	251.0	250.3	249.7
50°	3847.1	2825.9	650.0	332.8	302.0	256.6	243.4	235.2	220.8	213.9	214.5
52.5°	3904.2	2673.9	530.9	310.2	277.2	240.1	221.4	208.4	190.5	184.3	183.6
55°	3828.6	2376.2	424.4	282.7	242.7	218.0	197.4	180.2	165.7	158.2	158.2
57.5°	3643.6	1997.2	335.6	250.3	206.3	193.2	172.6	155.4	143.1	135.5	134.1
60°	3336.9	1585.9	265.5	211.9	176.1	166.5	145.1	134.1	123.1	114.2	112.1
62.5°	2871.3	1132.0	208.4	167.8	147.2	136.1	123.8	115.5	102.5	90.1	88.0
65°	2240.6	692.6	160.9	123.1	118.3	112.7	105.3	97.7	81.8	69.5	67.4
67.5°	1413.3	328.0	114.9	92.9	93.6	90.8	87.3	81.2	69.5	58.4	57.1
70°	622.4	158.9	75.6	70.8	69.5	69.5	72.3	70.1	59.1	48.8	46.7
72.5°	211.9	85.3	56.4	53.6	50.2	49.5	60.5	58.4	47.5	37.8	35.8
75°	110.7	57.1	41.3	38.5	30.2	36.5	48.2	45.4	33.7	24.8	22.7
77.5°	72.3	40.6	28.2	24.8	17.2	24.1	35.8	31.7	20.0	12.4	11.0
80°	45.4	26.9	16.5	11.7	8.3	13.0	19.3	13.7	7.6	2.8	2.0
82.5°	24.1	13.7	6.1	4.1	3.5	4.1	4.8	3.5	1.3	0.0	0.0
85°	9.6	4.8	2.0	1.3	0.7	0.0	1.3	0.7	0.0	0.0	0.0
87.5°	3.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)